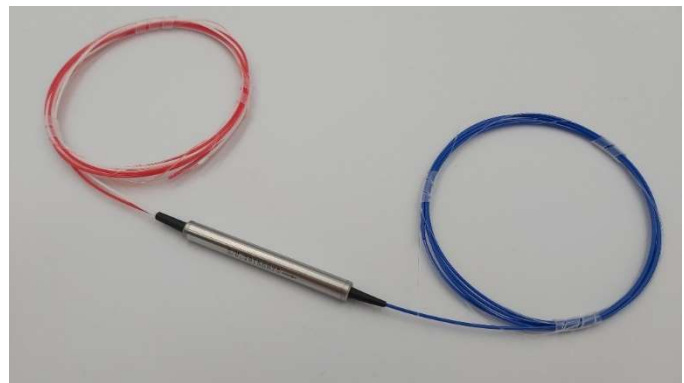


[OEIR-100-1030-2000]

## Standard & High-Power Fiber Optic Circulator 1030-2000nm (3 ports or 4 ports)

### Features:

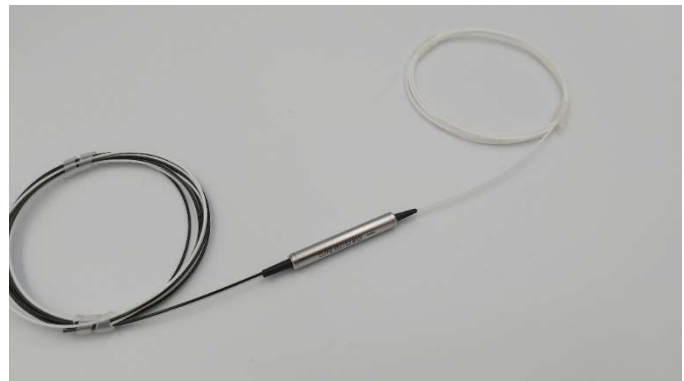
- Fiber pigtailed with protective tubing
- Polarization independent
- Small and compact design
- SM or PM fibers versions
- Epoxy-free optical path
- Low insertion loss, low crosstalk
- High stability, long-term reliability
- High isolation, Low PDL



OEIR-100-1030-2000-SM

### Applications:

- For standard applications
- For one-directional transmission of signals
- In research and development
- Optical dispersion compensation
- In production of amplifiers, OTDR
- Add/Drop modules, DWDM networks



OEIR-100-1030-2000-PM

### Product description:

The Fiber optic Circulator from O/E Land Inc. is a non-reciprocating, one directional, 3-port devices which is used in variety of optical systems. The signal entering from Port 1 will exit from Port 2 with minimal loss, while a signal entering from Port 2 will exit from Port 3 with minimal loss. On the other hand, the device provides isolation of all the signals trying to propagate in opposite direction, i.e., from Port 2 to Port 1, and from Port 3 to Port 2 respectively. It is polarization-independent device, with low polarization-dependent loss (PDL). The optical path is epoxy free, thereby enabling relatively high-power applications. The isolator has compact design and features high stability and reliability. This product meets the Telcordia GR-1221-CORE reliability standard.

### Specifications:

Parameter	Unit	OECIR-100-1030-2000				
Type		3-ports Fiber Optic Circulator				
Center wavelengths*	nm	1030	1064	1310	1550	2000
Bandwidth	nm	±10	±10	±30	±30	±30
Insertion loss (Port 1 to Port 2)	dB	<2	<2	<1.0	<1.0	<1.5
Insertion loss (Port 2 to Port 3)	dB	<2	<2	<1.0	<1.0	<1.5
Isolation (Port 1 to Port 2)	dB	>20	>20	>50	>40	>35
Isolation (Port 2 to Port 3)	dB	>20	>20	>50	>40	>35
Return loss (per port)	dB	>50	>50	>60	>50	>50
Polarization dependant loss (PDL) (Port 1 to Port 2)	dB	<0.20	<0.20	<0.06	<0.10	<0.20
Polarization dependant loss (PDL) (Port 2 to Port 3)	dB	<0.20	<0.20	<0.06	<0.10	<0.20
Polarization mode dispersion (PMD)	ps	<0.25	<0.25	<0.10	<0.20	<0.25
Extinction ratio (Port 1 to Port 2)	dB	>20	>20	>20	>20	>20
Extinction ratio (Port 2 to Port 3)	dB	>20	>20	>20	>20	>20
Crosstalk (Port 1 to Port 3)	dB	>50	>50	>50	>50	>50
Power handling (CW)	W	0.3, 1, 3, 10		0.5, 1, 2, 3, 5, 10, 20		
Tensile load	N	<5	<5	<5	<5	<5
Fiber type**	-	HI1060 PM980	HI1060 PM980	SMF-28 PM1550	SMF-28 PM1550	SM1950 PM1550
Fibre length	m	Custom; 1				
Cable jacket size	mm	Bare fiber; 0.9 tubing				
Connectors	-	None; FC/PC; FC/APC; SC/PC; SC/APC; LC/PC; LC/APC				
Operating temperature	°C	-5 to +70				
Storage temperature	°C	-40 to +85				
Dimensions (LxD) (approx.)	mm	50 x 5.5				

\* Custom center wavelengths also available.

\*\* Custom fiber type is also available

Specifications can vary depending on the wavelength and fiber type.

4-ports version available upon request.

### Ordering number:

OECIR-100-WL-B-Fiber-Ports-Conn	WL	B	Fiber type	Ports	Connector
	Wavelength (nm)	Bandwidth (nm)	SM: Single-mode PM: Polarization-maintaining	3: 3-ports 4: 4-ports	NC: Non-connectorized FC/PC: FC/PC connector
Example:			OECIR-100-1550-20-SM-3-NC		